IN



REVOCATION OF PRIOR POWERS OF ATTORNEY APPOINTMENT OF NEW POWERS OF ATTORNEY AND

CHANGE OF CORRESPONDENCE ADDRESS

in re

Applicant/Patent Owner: SIEMENS VDO AUTOMOTIVE CORPORATION

Application No.: 10/642,424

Filing Date: 8/12/2003

Publication No.: 2004-0228094

Publication Date: 11/18/2004

Patent No.: 6987670

Issue Date: 1/17/2006

Entitled: Dual Power Module Power System Architecture

Siemens VDO Automotive Corporation, a Delaware corporation, as assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment averred per the attached Statement Under 37 CFR 3.73(b), hereby:

a) revokes all previous powers of attorney given in the above-identified application.

b) appoints all Practitioners associated with the Customer Number: 028524 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

c) requests change the correspondence address for the above-identified application to the address associated with the above-mentioned Customer Number.

19 July 2007

Laura M. Slenzak

Assistant Secretary for Intellectual Property Matters Siemens VDO Automotive Corporation



Applicant/Patent Owner: SIEMENS VDO AUTOMOTIVE CORPORATION

Application No.: 10/642,424 Filing Date: 8/12/2003

Publication No.: 2004-0228094 Publication Date: 11/18/2004

Patent No.: 6987670 Issue Date: 1/17/2006

Entitled: Dual Power Module Power System Architecture

Siemens VDO Automotive Corporation, a Delaware corporation, states that it is: the assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 019077, Frame 0840, for which a copy thereof is attached.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was already submitted for recordation pursuant to 37 CFR 3.11.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

19 July 2007

Laura M. Stenzak

Assistant Secretary for Intellectual Property Matters

Siemens VDO Automotive Corporation





Patent Assignment Details NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840 Pages: 7 Recorded: 3/28/2007

l propert	es: 104				The proof of the Manager State of the Control of the State of the Control of the	رور در	
1	Patent #: Title: SWIT	5402059 CHING POWER SU				8193587 Filing Dt:	2/8/199
2	Patent #: Title: FAUL	<u>5469351</u> T ISOLATION IN A				8270967 Filing Dt:	7/5/199
3	Patent #: Title: THRE	5552977 EE PHASE INVERTE	Issue Dt: ER CIRCUIT WITH			8493221 Filing Dt: PWM TO SIX STEP OPER	6/20/199 ATION
4	Patent #: Title: INDL	<u>5627446</u> ICTION MOTOR CO	Issue Dt: ONTROL METHOD	- •	Application #:	8498163 Filing Dt:	7/5/199
5	Patent #: Title: MACI	5619435 HINE	Issue Dt:	4/8/1997	Application #:	8558950 Filing Dt:	11/13/199
6	Patent #: Title: INDU	<u>5739664</u> ICTION MOTOR DR	Issue Dt:		Application #:	8596846 Filing Dt:	2/5/199
7 .	Patent #: Title: INDU	<u>5754026</u> OCTION MOTOR CO	Issue Dt: ONTROL METHOD		Application #:	8825986 Filing Dt:	4/4/199
8	Patent #: Title: BACH	<u>5821720</u> KLASH ELIMINATIO		, ,	Application #:	8846442 Filing Dt:	4/30/199
9	Patent #: Title: TORS	<u>5994859</u> SIONAL OSCILLATI	Issue Dt:		Application #:	8848206 Filing Dt:	4/30/199
10	Patent #: Title: VIBR	6072297 ATION DETECTION	Issue Dt: N AND CONTROL		• •	8926415 Filing Dt:	9/9/199
11	Patent #: Title: VOL1	6047787 FAGE CONTROL ME		• •	Application #: R CONTROL SYSTEM	9017934 Filing Dt:	2/3/199
12	Patent #: Title: POLE	<u>5977679</u> -PHASE MODULAT	Issue Dt:	• •	Application #: N INDUCTION MACH	9034946 Filing Dt:	3/5/199
13	Patent #: Title: META	5905349 HOD OF CONTROLI	Issue Dt:		Application #: IN AN ELECTRIC V	9064237 Filing Dt: EHICLE	4/23/199
14	Patent #: Title: ROTO	<u>5965967</u> OR FOR AN ELECT	Issue Dt:	10/12/1999	Application #:	9110353 Filing Dt:	7/6/199
15	Patent #: Title: INCR	6246343 EMENT ENCODER	Issue Dt:		Application #:	9263303 Filing Dt:	3/5/199
16	Patent #: Title: VEHI	6122588 CLE SPEED CONTR	Issue Dt:	• •	Application #:	9420465 Filing Dt:	10/19/199
17	Patent #: Title: COU	6307275 PLED TO AN INDU	Issue Dt: STRIAL TURBO E		Application #:	9495443 Filing Dt:	1/31/200
18	Patent #:	6377019	Issue Dt:	4/23/2002	Application #:	9499366 Filing Dt:	2/10/200





Patent Assignment Details NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff. Reel/Frame: 019077/0840

Pages: 3/28/2007

Recorded:

	Convoyance CHAN	CE OF NAME (CE	Recorded:	3/28/2007			
Total prope	Conveyance: CHAN	GE OF IVAME (SEE	DOCUMENT FO	K DETAILS).	an and annual to the same	a tapa di antin'i Salahah Sangaran Mandalah Sangaran Mandalah Sangaran Mandalah Sangaran Sang	
19	and the second s	6220575	Teaus Dts	E/20/2001	Application #	OFOROGO EILING DA	2/11/2000
19	Patent #: Title: Induc	6239575 tion motor power,	Issue Dt: torque clamping		Application #:	9502869 Filing Dt:	2/11/2000
20	Patent #:	6330143 natic over-current	Issue Dt:		Application #:	9512480 Filing Dt:	2/23/2000
	THE AUTO	ilade over-editerie	protection or tre	1113131013			
21	Patent #:	6169679	Issue Dt:		Application #:	9532796 Filing Dt:	3/21/2000
	Title: Metho	od and system for	synchronizing tr	ie phase angles	of parallel connecte	d inverters	
22	Patent #:	6291960	Issue Dt:		Application #:	9533296 Filing Dt:	3/22/2000
	Title: Pulse	width modulated	motor control sy	stem and metho	od for reducing noise	e vibration and harshness	S
23	Patent #:	6327524	Issue Dt:	12/4/2001	Application #:	9561546 Filing Dt:	4/28/2000
	Title: Syste	m for high efficier	ncy motor contro	l			
24	Patent #:	6366049	Issue Dt:	4/2/2002	Application #:	9567592 Filing Dt:	5/10/2000
	Title: Motor	starter and speed	d controller syste	em			
25	Patent #: `	6178103	Issue Dt:	1/23/2001	Application #:	9567965 Filing Dt:	5/10/2000
	Title: Metho	od and circuit for s	synchronizing pa	rallel voltage so	urce inverters	_	
26	Patent #:	6212085	Issue Dt:	4/3/2001	Application #:	9593613 Filing Dt:	6/13/2000
	Title: Integ	rated dual voltage	sourced inverte	r	••		
27	Patent #:	6362988	Issue Dt:	3/26/2002	Application #:	9606865 Filing Dt:	6/29/2000
		ATION WITH A GE		-,,		.	-,,
28	Patent #:	6239997	Issue Dt:	5/29/2001	Application #:	9653478 Filing Dt:	9/1/2000
					• •	r source to a power grid	5, 2, 2000
29	Patent #:	6388419	Issue Dt:	5/14/2002	Application #:	9653654 Filing Dt:	9/1/2000
29		control system	Issue Dt.	3/14/2002	Application #.	FOODOST THING DE.	3/ 1/ 200 0
30	Patent #:		Issue Dt:	6 12 12002	A	0000000 FILL- DA	11/5/2001
30	Publication #: US2	<u>6572416</u> 0030087560	Pub Dt:	5/8/2003	Application #:	9682976 Filing Dt:	11/5/2001
		E-PHASE CONNEC	TOR FOR ELECT		RIVETRAIN		
31	Patent #:	6646837	Issue Dt:	11/11/2003	Application #:	9682994 Filing Dt:	11/6/2001
	Publication #: US2		Pub Dt:	12/19/2002		, , , , , , , , , , , , , , , , , , ,	, -,
	Title: ACTI	VE GROUND CURR	ENT REDUCTION	N DEVICE			
32	Patent #:	6744158	Issue Dt:	6/1/2004	Application #:	9683018 Filing Dt:	11/8/2001
	Publication #: US2		Pub Dt:	7/11/2002			
	Title: ELEC	TRIC MACHINE W	ITH COOLING RI	NGS			
33	Patent #:	6631960	Issue Dt:	10/14/2003	Application #:	9683171 Filing Dt:	11/28/2001
	Publication #: US2		Pub Dt:	7/17/2003			
	Title: SERI	ES REGENERATIVE	BRAKING TOR	QUE CONTROL S	YSTEMS AND METH	ODS	
34	Patent #:	6496393	Issue Dt:	12/17/2002	Application #:	9683172 Filing Dt:	11/28/2001
	Title: INTE	GRATED TRACTIO	N INVERTER MO	DULE AND BI-D	IRECTIONAL DC/DC	CONVERTER	
35	Patent #:	<u>6465977</u>	Issue Dt:	10/15/2002	Application #:	9683176 Filing Dt:	11/29/2001





Publication #: <u>US20040095786</u>

United States Patent and Trademark Office

Patent Assignment Details

NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840 Pages: Recorded: 3/28/2007 Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). Total properties: 104 Title: SYSTEM AND METHOD FOR CONTROLLING TORQUE IN AN ELECTRICAL MACHINE 36 Patent #: 6630809 Issue Dt: 10/7/2003 Application #: 9683180 Filing Dt: 11/29/2001 Pub Dt: Publication #: <u>US20030098665</u> 5/29/2003 Title: SYSTEM AND METHOD FOR INDUCTION MOTOR CONTROL 37 Patent #: Issue Dt: 10/28/2003 Application #: 9683199 Filing Dt: 11/30/2001 6639334 Publication #: US20030102728 Pub Dt: 6/5/2003 Title: JET IMPINGEMENT COOLING OF ELECTRIC MOTOR END-WINDINGS 38 Patent #: 6452352 Issue Dt: 9/17/2002 Application #: 9705236 Filing Dt: 11/2/2000 Title: CURRENT GENERATING SYSTEM Issue Dt: 6445095 9/3/2002 Application #: 9758871 Filing Dt: 39 Patent #: 1/11/2001 Publication #: US20020089242 Pub Dt: 7/11/2002 Title: ELECTRIC MACHINE WITH LAMINATED COOLING RINGS 40 Issue Dt: 10/21/2003 Application #: 9957001 Filing Dt: 9/20/2001 Patent #: 6636429 Publication #: US20020126465 Pub Dt: 9/12/2002 Title: LEVEL 41 Patent #: 6793502 Issue Dt: 9/21/2004 Application #: 9957047 Filing Dt:-9/20/2001 Publication #: US20020111050 Pub Dt: 8/15/2002 Title: PRESS (NON-SOLDERED) CONTACTS FOR HIGH CURRENT ELECTRICAL CONNECTIONS IN POWER MODULES 42 1/18/2005 Application #: 9957568 Filing Dt: Patent #: 6845017 Issue Dt: 9/20/2001 Pub Dt: 8/29/2002 Publication #: US20020118560 Title: SUBSTRATE-LEVEL DC BUS DESIGN TO REDUCE MODULE INDUCTANCE 43 6707270 Issue Dt: 3/16/2004 Application #: 10010307 Filing Dt: 11/13/2001 Patent #: Publication #: US20030090226 Pub Dt: 5/15/2003 Title: SYSTEM AND METHOD FOR INDUCTION MOTOR CONTROL 44 Patent #: 7012810 Issue Dt: 3/14/2006 Application #: 10109555 Filing Dt: 3/27/2002 Publication #: US20020167828 Pub Dt: 11/14/2002 Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE 45 7/19/2005 Application #: 10159603 Filing Dt: Patent #: 6919650 Issue Dt: 5/31/2002 Publication #: US20030222507 Pub Dt: 12/4/2003 Title: HYBRID SYNCHRONIZATION PHASE ANGLE GENERATION METHOD 46 Patent #: 6700342 Issue Dt: 3/2/2004 Application #: 10208251 Filing Dt: 7/29/2002 Publication #: US20030030395 Pub Dt: 2/13/2003 Title: LIMITED POSITION INFORMATION 47 Patent #: 6815925 Issue Dt: 11/9/2004 Application #: 10293911 Filing Dt: 11/12/2002 Publication #: US20040090205 Pub Dt: 5/13/2004 Title: SYSTEMS AND METHODS FOR ELECTRIC MOTOR CONTROL 48 6778411 8/17/2004 Application #: 10298473 Filing Dt: 11/18/2002 Patent #: Issue Dt:

Pub Dt:

Title: STARTUP APPARATUS AND METHOD FOR POWER CONVERTERS

5/20/2004





Patent Assignment Details

NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840 Pages: Recorded: 3/28/2007 Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). Total properties: 104 Issue Dt: 49 Patent #: 6714424 3/30/2004 Application #: 10306833 Filing Dt: Publication #: US20040037097 Pub Dt: 2/26/2004 Title: DEAD-TIME COMPENSATION WITH NARROW PULSE ELIMINATION IN SOLID-STATE SWITCH DEVICES 50 Issue Dt: Patent #: 6861835 3/1/2005 Application #: 10309793 Filing Dt: 12/3/2002 Publication #: <u>US20040104718</u> Pub Dt: 6/3/2004 Title: METHOD AND SYSTEM FOR NON-INVASIVE POWER TRANSISTOR DIE VOLTAGE MEASUREMENT 51 Patent #: Issue Dt: 9/12/2006 Application #: 10328934 Filing Dt: 7106564 12/23/2002 Publication #: US20030147191 Pub Dt: 8/7/2003 Title: DEVICES AND METHODS FOR DETECTING ISLANDING OPERATION OF A STATIC POWER SOURCE 52 Patent #: 7190145 Issue Dt: 3/13/2007 Application #: 10334198 Filing Dt: 12/30/2002 Publication #: <u>US20030164692</u> Pub Dt: 9/4/2003 Title: METHOD AND APPARATUS FOR IMPROVING SPEED MEASUREMENT QUALITY IN MULTI-POLE MACHINES 53 <u>6914354</u> Issue Dt: 7/5/2005 Application #: 10334820 Filing Dt: 12/30/2002 Publication #: <u>US20030173840</u> Pub Dt: 9/18/2003 Title: ASSEMBLY AND METHOD FOR DIRECT COOLING OF MOTOR END-WINDING 54 Patent #: Issue Dt: 2/8/2005 Application #: 10345871 Filing Dt: 6853940 1/15/2003 Publication #: <u>US20030165036</u> Pub Dt: 9/4/2003 Title: ANTI-ISLANDING DEVICE AND METHOD FOR GRID CONNECTED INVERTERS USING RANDOM NOISE INJECTION 55 Patent #: 6844701 Issue Dt: 1/18/2005 Application #: 10345872 Filing Dt: 1/15/2003 Publication #: <u>US20030164028</u> Pub Dt: 9/4/2003 Title: OVERMODULATION SYSTEMS AND METHODS FOR INDUCTION MOTOR CONTROL 56 Patent #: 6937483 Issue Dt: 8/30/2005 Application #: 10345894 Filing Dt: 1/15/2003 Publication #: <u>US20030198064</u> Pub Dt: 10/23/2003 Title: DEVICE AND METHOD OF COMMUTATION CONTROL FOR AN ISOLATED BOOST CONVERTER 57 Patent #: 1/18/2005 Application #: 10346554 Filing Dt: 6843749 Issue Dt: 1/16/2003 Publication #: <u>US20030155165</u> Pub Dt: 8/21/2003 Title: APPARATUS AND METHOD TO ACHIEVE MULTIPLE EFFECTIVE RATIOS FROM A FIXED RATIO TRANSAXLE 58 Patent #: 7014928 Issue Dt: 3/21/2006 Application #: 10346561 Filing Dt: 1/16/2003 Publication #: US20030157379 **Pub Dt:** 8/21/2003 Title: DIRECT CURRENT/DIRECT CURRENT CONVERTER FOR A FUEL CELL SYSTEM 59 6894450 Issue Dt: 5/17/2005 Application #: 10346724 Filing Dt: 1/16/2003 -Publication #: <u>US20030214266</u> Pub Dt: 11/20/2003 Title: CIRCUIT CONFIGURATION FOR PERMANENT MAGNET SYNCHRONOUS MOTOR CONTROL 60 Patent #: 3/14/2006 Application #: 10360832 Filing Dt: 2/7/2003 7012822 Issue Dt: Publication #: <u>US20030214826</u> Pub Dt: 11/20/2003 Title: INTEGRATED TRACTION INVERTER MODULE AND DC/DC CONVERTER 61 Patent #: 6890218 Issue Dt: 5/10/2005 Application #: 10443646 Filing Dt: 5/21/2003 Publication #: <u>US20040033729</u> Pub Dt: 2/19/2004

Title: THREE-PHASE CONNECTOR FOR ELECTRIC VEHICLE DRIVETRAIN



Patent Assignment Details

NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840 Pages:

3/28/2007 Recorded: Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). Total properties: 104 62 Issue Dt: Patent #: 6927988 8/9/2005 Application #: 10447708 Filing Dt: 5/28/2003 Publication #: US20040034508 Pub Dt: 2/19/2004 Title: CONVERTER CIRCUITS 63 Patent #: 6936991 Issue Dt: 8/30/2005 Application #: 10449824 Filing Dt: 5/30/2003 Publication #: US20040036434 Pub Dt: 2/26/2004 Title: METHOD AND APPARATUS FOR MOTOR CONTROL. 1/18/2005 Application #: 10453920 Filing Dt: 64 Issue Dt: Patent #: <u>6845020</u> 6/2/2003 Pub Dt: Publication #: <u>US20040027839</u> 2/12/2004 Title: POWER CONVERTER SYSTEM 65 Patent #: 6867987 Issue Dt: 3/15/2005 Application #: 10461933 Filing Dt: 6/13/2003 Publication #: <u>US20040252531</u> Pub Dt: 12/16/2004 Title: MULTILEVEL INVERTER CONTROL SCHEMES 66 6900643 Issue Dt: 5/31/2005 Application #: 10637754 Filing Dt:: 8/6/2003 Publication #: <u>US20050030045</u> Pub Dt: 2/10/2005 Title: RIDE THROUGH IN ELECTRONIC POWER CONVERTERS 67 Patent #: Issue Dt: 6/14/2005 Application #: 10642391 Filing Dt: 8/14/2003 6906404 Publication #: <u>US20040227231</u> Pub Dt: 11/18/2004 Title: POWER MODULE WITH VOLTAGE OVERSHOOT LIMITING Issue Dt: 1/17/2006 Application #: 10642424 Filing Dt: 68 Patent #: 6987670 8/14/2003 Publication #: US20040228094 Pub Dt: 11/18/2004 Title: DUAL POWER MODULE POWER SYSTEM ARCHITECTURE 69 Patent #: 7058755 Issue Dt: 6/6/2006 Application #: 10658124 Filing Dt: 9/9/2003. Publication #: US20050055496 Pub Dt: 3/10/2005 Title: EEPROM EMULATION IN FLASH MEMORY 70 Patent #: NONE Issue Dt: Application #: 10658804 Filing Dt: 9/9/2003 Publication #: <u>US20060274561</u> Pub Dt: 12/7/2006 Title: Tri-level inverter 71 Patent #: NONE Issue Dt: Application #: 10664808 Filing Dt: 9/17/2003 Publication #: <u>US20040230847</u> Pub Dt: 11/18/2004 Title: Power converter architecture employing at least one capacitor across a DC bus 72 3/28/2006 Application #: 10688834 Filing Dt: 10/16/2003 Patent #: <u>7019996</u> Issue Dt: Publication #: <u>US20050083714</u> Pub Dt: 4/21/2005 Title: POWER CONVERTER EMPLOYING A PLANAR TRANSFORMER Patent #: NONE Issue Dt: Application #: 10713552 Filing Dt: 11/14/2003 Publication #: <u>US20050105229</u> Pub Dt: 5/19/2005 Title: Two-level protection for uninterrupted power supply 74 Patent #: 6940735 Issue Dt: 9/6/2005 Application #: 10713767 Filing Dt: 11/14/2003 Publication #: <u>US20050105306</u> **Pub Dt:** 5/19/2005

Title: POWER CONVERTER SYSTEM





Patent Assignment Details

NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840 Pages: 7 Recorded: 3/28/2007 Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). Total properties: 104 88 Patent #: 7046535 Issue Dt: 5/16/2006 Application #: 11003542 Filing Dt: 12/3/2004 Publication #: US20050152100 Pub Dt: 7/14/2005 Title: ARCHITECTURE FOR POWER MODULES SUCH AS POWER INVERTERS Patent #: NONE 89 Issue Dt: Application #: 11010560 Filing Dt: 12/13/2004 Publication #: US20050152101 Pub Dt: 7/14/2005 Title: Architecture for power modules such as power inverters 90 Patent #: NONE Issue Dt: Application #: 11010561 Filing Dt: 12/13/2004 Publication #: US20050162875 **Pub Dt:** 7/28/2005 Title: Architecture for power modules such as power inverters 91 Patent #: NONE **Issue Dt:** Application #: 11010950 Filing Dt: 12/13/2004 Publication #: US20060007721 Pub Dt: 1/12/2006 Title: Architecture for power modules such as power inverters 92 Patent #: NONE Issue Dt: Application #: 11095035 Filing Dt: 3/30/2005 Publication #: <u>US20050253543</u> Pub Dt: 11/17/2005 Title: Method, apparatus and article for vibration compensation in electric drivetrains 93 Patent #: NONE **Issue Dt:** Application #: 11096236 Filing Dt: Publication #: <u>US20050254273</u> Pub Dt: 11/17/2005

3/30/2005 Title: Method, apparatus and article for bi-directional DC/DC power conversion Patent #: NONE Issue Dt: Application #: 11192321 Filing Dt: 7/28/2005 94

Publication #: US20060022541 **Pub Dt:** 2/2/2006 Title: Rotor hub and assembly for a permanent magnet power electric machine

95 Patent #: 7187558 Issue Dt: 3/6/2007 Application #: 11245723 Filing Dt: 10/6/2005 Publication #: <u>US20060028806</u> Pub Dt: 2/9/2006 Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE

96 Patent #: NONE Issue Dt: Application #: 11250180 Filing Dt: 10/12/2005 Publication #: US20070080655 **Pub Dt:** 4/12/2007

Title: Method, apparatus and article for detecting rotor position

Issue Dt: Patent #: NONE Application #: 11255162 Filing Dt: 10/20/2005 Publication #: US20080152085 Pub Dt: 7/13/2006

Title: Power system method and apparatus

98 Patent #: NONE Issue Dt: Application #: 11262519 Filing Dt: 10/27/2005

11/18/2005

Publication #: <u>US20070097569</u> Pub Dt: 5/3/2007 Title: System and method of over voltage control for a power system

99 Patent #: NONE Issue Dt:

Application #: 11282301 Filing Dt: Publication #: US20070114954 Pub Dt: 5/24/2007

Title: System and method of commonly controlling power converters

100 Patent #: 7193860 **Issue Dt:** 3/20/2007 Application #: 11292870 Filing Dt: 12/2/2005

Publication #: US20060082983 Pub Dt: 4/20/2006

Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE





Patent Assignment Details

NOTE; Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

Reel/Frame: 019077/0840

Pages:

Recorded:

3/28/2007

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Total properties: 104

102

103

104

101 Patent #: NONE Issue Dt:

Application #: 11317658 Filing Dt:

12/22/2005

Publication #: US20070147097

Pub Dt:

6/28/2007

Title: house keeping power supply

Issue Dt:

Application #: 11318166 Filing Dt: 12/23/2005

Publication #: <u>US20060099463</u>

Patent #: NONE

Pub Dt:

5/11/2006

Title: Direct current/direct current converter for a fuel cell system

Patent #: NONE

Issue Dt:

Application #: 11472486 Filing Dt:

6/20/2006

Publication #: <u>US20070012492</u>

Pub Dt:

1/18/2007

Title: Power generation system suitable for hybrid electric vehicles

Patent #: NONE

Issue Dt:

Title: Controller method, apparatus and article suitable for electric drive

Application #: 11480311 Filing Dt:

6/29/2006

Publication #: <u>US20070016340</u>

1/18/2007 Pub Dt:

Assignor

1 BALLARD POWER SYSTEMS CORPORATION

Assignee

1 SIEMENS VDO AUTOMOTIVE CORPORATION

2400 EXECUTIVE HILLS BLVD.

AUBURN HILLS, MICHIGAN 48326-2980

Correspondence name and address

ELSA KELLER SIEMENS CORPORATION INTELLECTUAL ET AL 170 WOOD AVENUE SOUTH ISELIN, NJ 08830

Search Results as of: 07/19/2007 02:11 PM

If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350 v.2.0.1 Web interface läst modified: April 20, 2007 v.2.0.1